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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/483,712 01/14/00 JIANG

T 3815US (98-0)

EXAMINER

MM91/0829

WARREN, M

ART UNIT PAPER NUMBER

2815

DATE MAILED:

08/29/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks**BEST AVAILABLE COPY**

Office Action Summary	Application No.	Applicant(s)
	09/483,712	JIANG ET AL.
	Examiner Matthew E. Warren	Art Unit 2815

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 08 June 2001.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-29 is/are pending in the application.

4a) Of the above claim(s) 21-29 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-20 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

- Certified copies of the priority documents have been received.
- Certified copies of the priority documents have been received in Application No. _____.
- Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6

4) Interview Summary (PTO-413) Paper No(s) _____

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____

DETAILED ACTION

This Office Action is in response to the Election and Amendment filed on June 8, 2001.

Election/Restrictions

Claims 21-29 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 5.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-20 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by Lee et al. (US 5,894,107).

Claims 1-20 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Nozawa (US 6,181,010 B1).

Claims 1-20 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Amagai (US 6,144,102).

Claims 1-20 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Corisis et al. (US 6,232,666 B1).

Claims 1-20 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Farnworth (US 6,147,413).

Farnworth shows (Fig. 2h) a chip scale package comprising a semiconductor die (1004) having an active surface and a plurality of bond pads (1002). The lower surface of a dielectric element (1006) is attached to a portion of the active surface of the die. The lower surface of a plurality of conductive traces (1016) is attached to the upper surface of the dielectric element. Conductive bond members connect each conductive trace to the bond pads. Carrier bonds (1032) are disposed on an upper surface of the conductive trace. An encapsulating material (1018) is disposed on portions of the die, the dielectric element, the conductive traces, the bond members and a portion of the carrier bond. The dielectric element may be any adhesive including polyamide tape or films (col. 4, lines 1-48). The conductive traces may comprise lead fingers or conductive metal. The conductive bond members may comprise any conventional

connecting members including metal, wires, aluminum, TAB or thermocompression bonds. The carrier bond comprises conduct metal or solder balls. The encapsulating material is a non conductive material with a low elastic modulus film such as polyamide. The carrier bond has lower portion that is attached to the upper surface of the conductive trace and the encapsulating material is disposed about the lower portion of the carrier bond.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sonobe et al. (JP 60-180147A) and Minojima et al. (JP60-175444A) also disclose chip scale packages having the carrier bond in the encapsulant.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew E. Warren whose telephone number is (703) 305-0760. The examiner can normally be reached on Mon-Thurs, and alternating Fri, 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (703) 308-1690. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 308-7722 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

MEW

August 23, 2001



EDDIE LEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800